

What is claimed is :

1. A fluidized bed reactor for the ammoxidation of hydrocarbons, which is characterized by installing a set of internals in proximity to upper region of the catalyst bed, capable of enhancing the contact efficiency between gas and solid phases.
2. The fluidized bed reactor for the ammoxidation of hydrocarbons according to claim 1 wherein said internals comprise packings, baffles, screens, and the like.
3. The fluidized bed reactor for the ammoxidation of hydrocarbons according to claim 1 wherein said internals are positioned with their bottom side beneath the surface of the catalyst bed to keep its depth not larger than 20% of the height of said fluidized bed, while with their top side not beyond the inlet of the first-stage cyclone separator.
4. The fluidized bed reactor for the ammoxidation of hydrocarbons according to claim 1 wherein said hydrocarbons are propane, propylene, isobutene or xylene.

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